

Title (en)

Data compression and decompression method between digital unit and radio unit in cloud radio access network

Title (de)

Datenkomprimierungs- und Dekomprimierungsverfahren zwischen digitalen Einheiten und Funkeinheit in einem Cloud-Funkzugriffsnetzwerk

Title (fr)

Procédé de compression et de décompression de données entre une unité numérique et une unité radio dans un réseau d'accès radio en nuage

Publication

**EP 2802078 B1 20200415 (EN)**

Application

**EP 14166338 A 20140429**

Priority

KR 20130052642 A 20130509

Abstract (en)

[origin: US8842724B1] A method of compressing In-phase/Quadrature (I/Q) data transmitted and received between a Digital Unit (DU) and a Radio Unit (RU) in a Cloud Radio Access Network (CRAN) structure is disclosed. The method includes (a) calculating a minimum value DiMSB among meaningless higher-order bit digits Di,jMSB with respect to each of j-th I/Q samples having a predetermined resolution among i-th unit blocks that are units of compression, and (b) transmitting each of the samples after each of the samples is converted into a binary number and DiMSB number of higher-order bits, excluding a sign bit, are removed.

IPC 8 full level

**H03M 7/04** (2006.01)

CPC (source: EP KR US)

**H03M 7/04** (2013.01 - EP US); **H03M 7/3062** (2013.01 - US); **H04B 7/14** (2013.01 - KR)

Cited by

CN109314523A; WO2020125527A1; WO2018098706A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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KR 101410249 B1 20140620

DOCDB simple family (application)

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